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(74) Agent: SAUNDERS & DOLLEYMORE; 9 Rickmansworth Road, Watford, Hertfordshire WD18 0JU (GB).

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(71) Applicant (for all designated States except US): CLASADO INC. [PA/PA]; Edificio Banco do Brazil, Calle Elvira Mendez 10, Apartado 5246, Panama 5 (PA).

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(54) Title: NOVEL GALACTOOLIGOSACCHARIDE COMPOSITION AND THE PREPARATION THEREOF

(57) Abstract: Novel strains of *Bifidobacterium bifidum* capable of producing a novel galactosidase enzyme activity that converts lactose to a novel mixture of galactooligosaccharides. The mixture of oligosaccharides may be incorporated into numerous food products or animal feeds for improving gut health by promoting the growth of bifidobacteria in the gut, and repressing the growth of the pathogenic microflora.